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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/629,857	07/30/2003	Yasunori Nakamura	030918 6154			
23850	7590 09/23/2004	09/23/2004		EXAMINER		
ARMSTRONG, KRATZ, QUINTOS, HANSON & BROOKS, LLP			CHEUNG, WILLIAM K			
1725 K STREET, NW SUITE 1000			ART UNIT	PAPER NUMBER		
WASHINGTON, DC 20006			1713			

DATE MAILED: 09/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

					N			
Office Action Summary		Applica	tion No.	Applicant(s)	V			
		10/629,	857	NAKAMURA ET AL.				
		Examin	er	Art Unit				
			K Cheung	1713				
Period for	The MAILING DATE of this commu r Reply	nication appears on t	he cover sheet with the c	correspondence address				
THE N - Extension after S - If the p - If NO - Failum Any re	DRTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN sions of time may be available under the provision SIX (6) MONTHS from the mailing date of this com period for reply specified above is less than thirty (period for reply is specified above, the maximum s e to reply within the set or extended period for repl eply received by the Office later than three months id patent term adjustment. See 37 CFR 1.704(b).	NICATION. ns of 37 CFR 1.136(a). In no elementation. (30) days, a reply within the statutory period will apply and by will, by statute, cause the apply will.	event, however, may a reply be tin tatutory minimum of thirty (30) day will expire SIX (6) MONTHS from pplication to become ABANDONE	mely filed /s will be considered timely. Ithe mailing date of this communication. ED (35 U.S.C. § 133).	l.			
Status								
1)[⊠]	Responsive to communication(s) fil	led on <i>19 May 2004</i> .						
·	This action is FINAL . 2b)⊠ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositio	on of Claims							
5) 6) 7)	Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-12 is/are rejected.							
Application	on Papers							
9)[] 1	Γhe specification is objected to by the	ne Examiner.						
10)□ 7	The drawing(s) filed on is/are	e: a)∏ accepted or t	b) objected to by the	Examiner.				
•	Applicant may not request that any obje	ection to the drawing(s)) be held in abeyance. See	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) includin The oath or declaration is objected t	-		•).			
Priority u	nder 35 U.S.C. § 119							
a)∑	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation	y documents have be y documents have be s of the priority docun onal Bureau (PCT Ri	een received. een received in Applicati nents have been receive ule 17.2(a)).	ion No ed in this National Stage	:			
Attachment	(s)							
1) Notice	e of References Cited (PTO-892)		4) Interview Summary					
3) Inform	e of Draftsperson's Patent Drawing Review (nation Disclosure Statement(s) (PTO-1449 o · No(s)/Mail Date		Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)				

DETAILED ACTION

In view of Preliminary Amendment, new claims 8-12 have been added. Claims 1 are pending.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. Claims 1-12 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Chatterjee (US 5,922,471).

The invention of claims 1-12 relates to a polypropylene-based resin composition for metallized films, comprising:

- (A) **100 parts by weight of a propylene random copolymer** having the properties (a-1) to (a-5):
 - (a-1) propylene unit present at 88 to 99.5% by mol, and ethylene and/or butene structural unit present at 0.5 to 12% by mol,
 - (a-2) melt flow rate (MFR_A) of 1 to 30g/10 minutes,
 - (a-3) **polydispersity index** (PI), determined by the melt viscoelasticity analysis, of **2.4 to 4**,
 - (a-4) **solubles** contained at 20°C or lower, determined by cross fractionation chromatography (CFC), at 1.5% by weight or less, and the solubles having a weight-average molecular weight of 0.1x10⁴ to 6.0x10⁴, and

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(a-5) **solubles** contained at 40°C or lower, determined by cross fractionation chromatography (CFC), at **4.0%** by weight or less, and the solubles having a weight-average molecular weight of **0.1x10⁴** to **8.0x10⁴**,

- (B) **0.0 1 to 6 parts** by weight of a **polyethylene** resin having a density of **0.945 to 0.980g/cm³**, **melt index (MI_B) of 1 to 1000g/10 minutes**, and ratio of MI_B to MFR_A, i.e., (MI_B/MFR_A) ratio, of **0.7 to 1000**,
- (C) **0.01 to 0.7 parts** by weight of an **antiblocking agent** having an average particle size of **1.0 to 5.0µm** and pore volume of **1.7mL/g or less**,
- (D) 0.01 to 0.5 parts by weight of an antioxidant having a molecular weight of 500 or more, and
- (E) 0.005 to 0.5 parts by weight of a hydrotalcite-based compound.

Chatterjee (abstract) discloses polypropylene random copolymer resins for metallized film applications. Further, Chatterjee (col. 2, line 21 to col. 4, line 55) clearly teach using applicants' claimed components (antioxidant, hydrotalcite, HDPE, antiblocking agent) (col. 4, Table I and II) in specific ranges. Although Chatterjee does not provide a working example to demonstrate applicants' claimed invention in a single embodiment, however, it would not be difficult to one of ordinary skill in art to obtain the invention of claims 1-12 after reading the specific component teachings (antioxidant, hydrotalcite, HDPE, antiblocking agent) in Chatterjee.

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Regarding the claimed "polyethylene resin having a density of 0.945 to 0.980g/cm³, melt index (MI_B) of 1 to 1000g/10 minutes, and ratio of MI_B to MFR_A, i.e., (MI_B/MFR_A) ratio, of 0.7 to 1000", applicants must recognize that these recited properties are typical properties of high density polyethylene as recognized by one of ordinary skilled in the polyolefin industries.

In view of the substantially identical composition and intended used disclosed in Chatterjee and the composition and intended use being claimed, the examiner has a reasonable basis to believe that the claimed "solubles contained at 20 °C or lower, determined by cross fractionation chromatography (CFC), at 1.5% by weight or less, and the solubles having a weight-average molecular weight of 0.1x10⁴ to 6.0x10⁴, and (a-5) solubles contained at 40°C or lower, determined by cross fractionation chromatography (CFC), at 4.0% by weight or less, the solubles having a weight-average molecular weight of 0.1x10⁴ to 8.0x10⁴", melting point characteristics, the mathematical relationship of claim 6 are inherently possessed in Chatterjee. Since the PTO does not have proper means to conduct experiments, the burden of proof is now shifted to applicants to show otherwise. In re Best, 562 F.2d 1252, 195 USPQ 430 (CCPA 1977); In re Fitzgerald, 205 USPQ 594 (CCPA 1980).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William K Cheung whose telephone number is (571) 272-1097. The examiner can normally be reached on Monday-Friday 9:00AM to 2:00PM; 4:00PM to 8:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David WU can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William K. Cheung

Primary Examiner

WILLIAM K. CHEUNG PRIMARY EXAMINER

September 21, 2004